

**MEETING AGENDA**  
**TOWN OF CORTE MADERA**  
Flood Control Board

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Monday August 1, 2016  
7:00 P.M.

Corte Madera Town Hall Council Chambers  
300 Tamalpais Drive, Corte Madera, CA 94925

1. CALL TO ORDER
2. SWEARING IN OF NEW FLOOD CONTROL BOARD MEMBER: RAMON GARCIA
3. OPEN FORUM FOR NON-AGENDA ITEMS
4. APPROVAL OF MEETING MINUTES (JUNE 16, 2016)
5. ENGINEERING STAFF UPDATE-Kelly Crowe
6. DISCUSSION ITEMS
  - A. 2016/17 Budgeted Storm Drain Projects
    - i. 11-007 Marina Village Grated Line Drain
    - ii. 14-502 Marina Village Levee Evaluation
7. FUTURE AGENDA ITEMS
8. ADJOURNMENT

Attachments:

1. Draft Minutes of June 16, 2016 meeting

*Note: Per Ordinance No. 821 of the Corte Madera Municipal Code, the **Storm Drainage Special Tax** has a 25 year term, beginning July 1, 1998 and expiring June 30, 2023.*

In compliance with the Americans with Disabilities Act, if you need special assistance to participate in this meeting, please contact the Department of Public Works at 415-927-5057. For auxiliary aids or services or other reasonable accommodations to be provided by the Town at or before the meeting, please notify the Department of Public Works at least 3 business days before the meeting in advance of the meeting date. If the Town does not receive timely notification of your reasonable request, the Town may not be able to make the necessary arrangements by the time of the meeting.

FLOOD CONTROL BOARD  
JUNE 16, 2016  
CORTE MADERA TOWN HALL COUNCIL CHAMBERS  
DRAFT MINUTES

Boardmembers Robert Bundy, Chair  
Present: David Bell  
Patrick Shea

Boardmembers Stephanie Bennett  
Absent: Bill Carlson  
Ann Thomas

Staff Present: Associate Engineer Kelly Crowe

1. Call to Order

Chair Bundy opened the meeting at 7:00 p.m.

2. Open Forum for Non-Agenda Items

There were no comments.

3. Approval of Meeting Minutes (April 4, 2016)

M/s, Bell/Bundy and carried unanimously (Bennett, Carlson, and Thomas absent) to approve the minutes of April 4, 2016 as corrected.

4. Engineering Staff Update

Associate Engineer Crowe stated staff held the pre-bid conference for the Marina Village/Mariner Cove Storm Drainage Improvements today with one contractor, Team Ghilotti, in attendance. Mr. Andre Jadowski from AN West Engineering made the presentation and discussed some of the issues. One issue has to do with the tree roots on Prince Royal Passage that need to be trimmed. This would necessitate coordination with the Town Arborist. Mr. Jadowski talked about the technical aspects and the construction in general. Chair Bundy stated the original thought was that some of those trees would have to be removed because the root systems would be disrupted. He asked if the Town would have to bear that expense. Associate Engineer Crowe stated there might be a way to get the adjacent property owner to pay for a portion of the sidewalk and perhaps take care of the roots. Simply removing and grinding the roots would not be that significant of a cost. He noted staff reminds residents who want to remove a tree that the Beautification Committee has a program for free trees. Boardmember Shea asked if they have a list of preferred "street trees". Associate Engineer Crowe stated "yes".

Chair Bundy asked Associate Engineer Crowe his thoughts about the Golden Hind Pump Station (by the Cove School)- was the valve intact, etc. Associate Engineer Crowe stated "yes" but there was some backwater getting through there. Staff went out and kicked on the pumps and noticed that the check valve was holding the water back. Once the turbulence in the box starts going then it lifts up the lip of the check valve allowing water to come back. Staff assumed that the water was coming back in through the catch basin in Golden Hind and getting back in the wet well. They popped all the manhole covers on Golden Hind, one by one, and took a look inside. They noticed there was a considerable amount of flow coming from the westerly direction which is not a result of the backwater coming through the system. There is something else coming through. Chair Bundy asked if they popped the covers on just the Cove catch basins/watershed district. Associate Engineer Crowe stated he was referring to the storm drain system that

goes into the manhole that goes into the wetwell. Boardmember Shea asked if the flow of water occurred just when the pumps were on. Associate Engineer Crowe stated “no”. Boardmember Shea asked if it could be a leaking water main someplace. Associate Engineer Crowe stated he discussed this with Mr. Jadcowski. He went up to the next upstream catch basin and did not hear anything. However, there was water in the next downstream catch basin. The plan is to send a camera down next week to see where the water is coming in. Boardmember Shea stated MMWD could test the water to determine whether it was groundwater, sewage, or something from their system. Associate Engineer Crowe stated that was a good point. One suggestion would be to replace the duckbill check valve that is in the valve box since it is allowing the water to go back into the catch basin and the wetwell. The duckbill could be replaced with another in line check valve. They do not want the water coming back into the wetwell and activating the pumps. Chair Bundy asked if the wetwell would fill up and spill out onto the street if the pumps were not turned on and there was a very high tide. Associate Engineer Crowe stated he was not sure- he would have to take a look at the elevations in the box. Chair Bundy asked if the pumps have to be on to drain the wetwell. Associate Engineer Crowe stated “yes”- that is what is happening now, a constant cycling of water. Chair Bundy asked if a modest high tide turned on the pumps. Associate Engineer Crowe stated “yes”- it is exacerbated by the flow from the west. The duckbill should be replaced and another check valve should be put in.

Boardmember Shea noted turbulence could be causing the check valve to fail and he suggested putting in some kind of baffle to reduce the turbulence. Associate Engineer Crowe stated it would need to be a very tall baffle since the discharge pipe comes in so high. And they would need some type of lower flow orifice at the bottom that would allow the water to crest over. This could be an option. Boardmember Shea noted it was coming from the west and he asked if it could be groundwater coming down from Ring Mountain given the decent amount of rainfall. Associate Engineer Crowe stated that was his original thought but he checked the storm drainage maps and noted that system is local just to that area- the park, Foremast Cove and Lanyard Cove.

Chair Bundy asked for an update on the break that happened on Paradise Drive (Madera Presidio pump station). Associate Engineer Crowe stated the repair was successful. Staff is still trying to figure out the cause. Chair Bundy asked if there was a lot of backpressure due to the location of the outfall that is intended to prevent scouring in San Clemente Creek. The grate keeps getting broken from the debris clogging up and causing pressure. Associate Engineer Crowe stated he talked to Mr. Jadcowski about it and he thought it might be a result of localized settling. It is ironic that the separation of the pipe was directly over the sewer line. The sewer line was put in about 30 years ago with piling and in the backfill effort they might not have gotten the compaction that was needed. Chair Bundy stated Public Works Superintendent Kramer has talked about redoing that outfall. Associate Engineer Crowe stated that was a budgeted item (replacing that outfall structure). Chair Bundy asked if they could redo it horizontally and use some baffles- that creek could use some scouring. This might alleviate the concern about any backpressure. Associate Engineer Crowe stated he would have to take a look at the structure. Another alternative is using an in-line check valve. The pipe comes in at a 90-degree angle at Golden Hind. An in-line check could be a cost-effective way of reducing the backpressure. He noted there were two, 45-degree joints that are fabricated- this type of joint will push back against the soil if they do not have good bearing capacity. This could be causing the separation. Chair Bundy asked if the grading above the box could be raised up about 6” or so. Associate Engineer Crowe stated he would take a look at that.

Associate Engineer Crowe reported the bid opening for the slotted drain project would occur on June 23<sup>rd</sup> at 2:00 p.m. Staff has two bids- one from Maggiora Ghilotti and Ghilotti Brothers. He would let the Board know what happens.

Associate Engineer Crowe reported on the Storm Water Initiative that would allow municipalities to levy a fee or an assessment for storm water. The money could then be used for storm drainage projects. The Attorney General had an issue with some of the language and did not want to put it on the ballot. A poll was taken and there was a favorable opinion from the respondents. Chair Bundy noted this was going to be a statewide ballot- they plan to try again. Boardmember Shea asked if the tax would be levied via a Parcel Tax, according to water usage, etc. Associate Engineer Crowe stated he was not sure how it would be structured but he would find out and report back to the Board.

Associate Engineer Crowe asked the Board to cancel the July Flood Board meeting since stated he would be out of the office.

## 5. Discussion Items

### A. NPDES Phase II Permit-Trash Requirements

Associate Engineer Crowe presented a staff report and a PowerPoint presentation. He discussed the background of the program and noted the State Water Resources Control Board issues new permits to allow municipalities to discharge stormwater. The current permit was issued in 2013 and is phased in over five years. Phase II includes the smaller jurisdictions (fewer than 50,000 people). Jurisdictions are being asked to choose between two options- 1) put in devices that collect the expected trash loads in priority land use areas (commercial, industrial, and high density residential); 2) demonstrate compliance with full trash capture. He noted option #1 could be cost-prohibitive if more than one device is needed. The County is still working on option #2. Street sweeping and maintenance programs that are designed to keep trash out of the storm drains could count towards option #2. There most likely will need to be some measure of trash capture devices installed. The requirements are focused on the priority land use areas and not residential. The State will send an order in December, 2016 asking jurisdictions to choose an option. They have three month to choose which track to comply with and then development of an implementation plan would begin. July 1, 2018 is the start of the installation period which runs for ten years. Option #2 requires a lot of documentation. Boardmember Bell asked who would decide on the compliance approach. Associate Engineer Crowe stated he was not sure but staff would probably make a recommendation to the Town Council. The average annual cost would be \$76,000 to either install full capture devices or come up with activities that demonstrate full capture equivalency. Some municipalities are designing bio-retention areas that not only clean and filter storm water runoff but also can be designed to double as trash capture devices. He displayed a slide that showed the cost of various systems. He briefly discussed the Request for Proposals (RFP) for Stormwater Resource Plans being issued by Marin County Storm Water Pollution Prevention Program (MCSTOPPP). The plans allow municipalities to access bond funds for green infrastructure.

Boardmember Shea stated Superintendent Kramer already has a program for collecting leaves around town and also for discouraging resident from blowing the leaves into the gutter. They should get credit for this existing program. Associate Engineer Crowe agreed- these maintenance practices could be a component.

Boardmember Shea asked if an automatic system would be used to scrub the devices. Associate Engineer Crowe stated there would be a by-pass (sump). Boardmember Shea noted the County was concerned about the big shopping centers but he asked about the areas where the storm drains are entering directly into the slough. He asked if they would need to install screens on those catch basins. Chair Bundy stated they would probably need those screens on the catch basin to prevent trash from entering the system.

Associate Engineer Crowe stated this issue would continue to be reviewed by the Board. Chair Bundy stated it would be important to find funding to support this program.

### B. 2016/17 Budgeted Storm Drain Projects

Associate Engineer Crowe asked the Board to continue this item to the next meeting when they have a quorum.

## 6. Future Agenda Items

Chair Bundy stated the following items would be on a future agenda: 1) 2016/17 Budgeted Storm Drain Projects.

## 7. Adjournment- The meeting was adjourned at 8:18 p.m.